UR/0020/66/170/003/0560/0560 TT/GW EWT(1)/FSS-2 1 06165-67 SOURCE CODE: AP6032853 ACC NR 4 V. Zmiyevskaya, G.I. 13 Vakhnin, V. M.; AUTHOR: TITLE: Stratified and faceted forms in panoramas obtained by the Luna-ORG: none AN SSSR. Doklady, v. 170, no. 3, 1966, 560 and insert facing 9 station SOURCE: LUNAR PHOTOGRAPHY, SPACE STATION, TOPIC TAGS: Alunar surface, moon, lunar study, lunar station/ Luna-9 p. 560 ABSTRACT: The complicated structures of characteristic and repeated forms of the lunar surface on panoramic pictures obtained by the Soviet lunar station "Luna-9" are described. Among these are forms which can be characterized as complex polyhedrons consisting of small flat regions. In many places on photographs the boundary between the light and the shadow consists of straight lines cast by objects with straight and flat faces. The first figure in the text shows the blocked structure formed by polyhedrons. The second figure contains several stratified structures which are bordered by two parallel and several stratilled structures which are bordered by two parallel and nearly vertical faces of large dimensions. Both ends of these structures have an irregular shape, but in many cases show indented surfaces tures have an irregular shape, but in many cases show indented surfaces. Card 1/2

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10m mh_L_		An and TLI	CKULATI	T ghanad	sides. urface
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1	ar photogra stratified	ar photographs, it is stratified rocks. Or	ar photographs, it is concluded stratified rocks. Orig. art. h	ar photographs, it is concluded that the stratified rocks. Orig. art. has: 3 f	ind funnel-shaped pits. The other part of the free with indented surfaces and irregularly shaped are photographs, it is concluded that the lunar servatified rocks. Orig. art. has: 3 figures. SUBM DATE: 14 Jun66/ ORIG REF: OO1/ OTH REF:

KEDROV, L.V.; KACHKO, I.L.; KOZLOVA, Z.V.; RUBASHKINA, T.S.; SIMONOV, I.G.; LUPEKIN, L.A.; BORISOVA, N.V.; FETISOVA, N.A.; VAYSBERG, I.Ye.; SUCHKOV, V.G.; KHRENNIKOV, N.S.; FILATOV, M.F., red.; ZMIYEVSKAYA, L.G., red.

[Flexible footwear] Gibkaia obuv'. Moskva, 1962. 38 p.
(MIRA 17:8)

1. TSentral'nyy institut nauchno-tekhnichesk oy informatsii legkoy promyshlennosti.

NIKITIN, G.N., inzh.; ZMIYEVSKAYA, L.G., red.

[Hair removal from rabbit skins unsuitable for processing as fur peltry] Sniatie pukha so shkurok krolika, neprigodnykh dlia pererabotki na meth. Koskva, 1964. 21 p.

(MIGM 18:4)

1. Moscow. TSent al'nyy institut nauchno-tekhnicheskoy informatsii legkoy promyshlennosti.

KARLSIK, Z.S.; MALEVANNYY, A.I.; OKUN', B.D.; TRUSHIN, S.A.;
MURAV'YEVA, M.I., red.; ZMIYEVSKAYA, L.G., red.

[Modernization of technological equipment in shoe factories] Modernizatsiia tekhnologicheskogo oborudovaniia na obuvnykh predpriiatiiakh. Moskva, 1962. 67 p.

(MIRA 17:5)

1. Moscow. TSentral'nyy institut nauchno-tekhnicheskoy informatsii legkoy promyshlennosti.

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PIMENCV, V.I., kand. tekhn. nauk; FILATOV, M.A., red.; ZMIYEVSKAYA,
L.G., red.; BRATISHKO, L.V., tekhn. red.

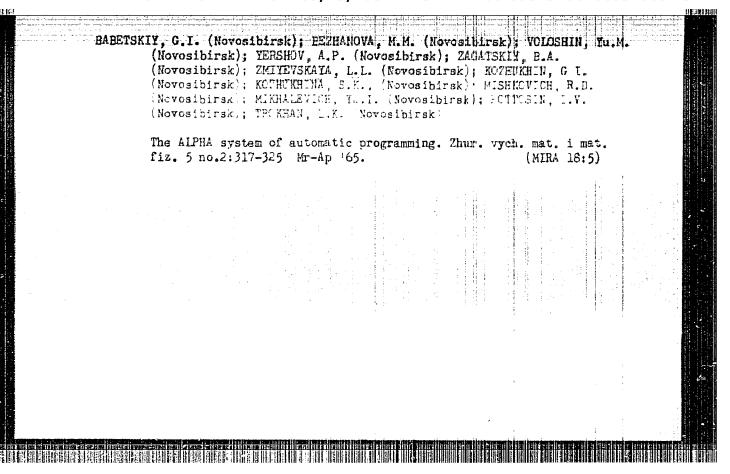
[Improving the cementing process of assembly in shoe
manufacture] Sovershenstvovanie kleevykh metodov krepleniia v obuvnom proizvodstve. Moskva, 1963. 52 p.

(MIRA 16:11)

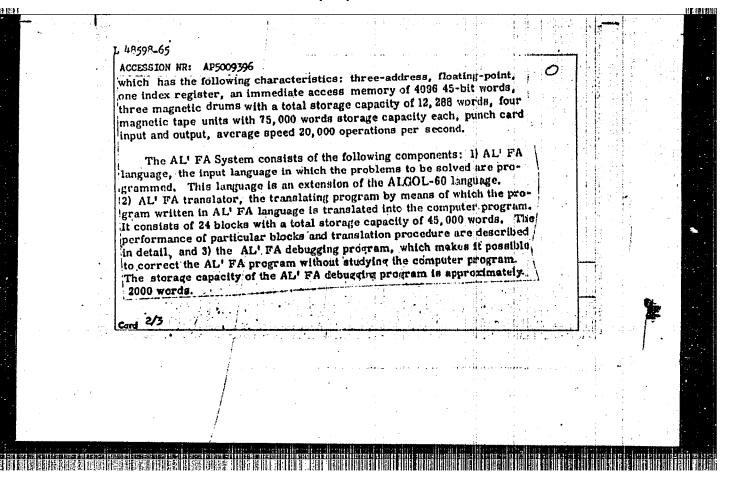
1. Moscow. TSentral'nyy institut nauchno-tekhnicheskoy
informatsii legkoy promyshlennosti.

(Shoe menufacture) (Adhesives)

ZMIYEVSKIY, I.A.; YEGOSHIN, Ye.A. Some problems in the assembly of boiler units. Energ.stroi. no.24:65-73 '61. 1. Starshiy proizvoditel' rabot montazhnogo uchastka tresta "Sevzapenergomontazh" (for Zmiyevskiy). 2. Nachal'nik Proizvodstvenno-tekhnicheskogo otdela montazhnogo uchastka tresta "Sevzapenergomontazh" (for Yegoshin). (Narva region--Electric power plants--Design and construction) (Boilers)



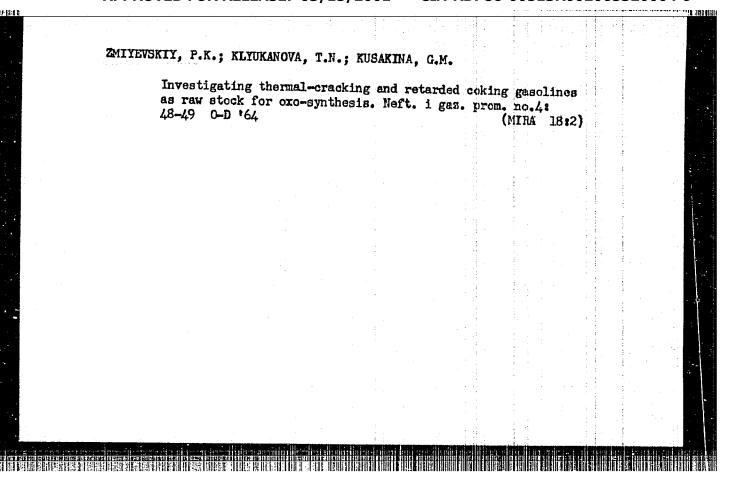
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	AUTHOR: Eabetskiy, G. I. (Revesibirsk); Berhanova, H. H. (Rovesibirsk); Bagatskiy, B. A. B. (Rovesibirsk);
:	Voloshin, Yu. M. (Novosibirek); Yershov, A. P. (Novosibirek); Asimiska Voloshin, Yu. M. (Novosibirek); Yershov, A. P. (Novosibirek); Koshukhin, G. I. (Novosibirek); Koshukhina, G. I. (Novosibirek); Michalevich, Kozhukhina, S. K. (Novosibirek); Michalevich, R. D. (Novosibirek); Michalevich, Yu. I. (Novosibirek); Pottosin, I. V. (Novosibirek); Trokhan, In K. (Novosibirek)
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,	SOURCE: Zhurnal vychislitel noy matematiki i matematicheskoy
	TOPIC TAGS: automatic computer programming, computer language, AL'FA computer,
	language, ALTA computer
	Programming of the was developed by a group of twelve of Sciences ISSR
5	Programming System was developed by a group of twelve acteinness USSR. The AL' FA System was developed by a group of twelve acteinness USSR. Computing Center of the Siberian Branch of the Academy of Sciences USSR. and is intended for the electronic computer of the same computing center.
·	Card 1/3



	II. III.
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	L 48598-65 ACCESSION NR: AP5009396
	It is indicated that scientists were working on the development of the
	AL' FA System from 1959 to 1964 and that the estimated labor used amounts
	to 35 man-years. The AL' FA System has been in an experimental stage
	of operation since January 1964. Some operational data obtained in the first five months are presented and compared with the data on manual pro-
	gramming. Orig. art. has 2 tables.
	ASSOCIATION: none
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2MI YE	VSKIY, P.K.;	MITROFANOV,	M.G.					
	Catalytic or no.6:3-5 '65	acking of he	avy coker ge	n oils.	Nef'teper.	1 nefte (MIRA	khim. 18:7)	
	1. Volgograd	skiy nauchno	⊶Lasladovate	el'okiy i	nstitut n	eftil gaz	la.	
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ZAVIDOV, V.I.; ZMIYEVSKIY, P.K.; FEDOROVA, Z.V.; KHUR.L.I.; ATAMANKIN, A.I.

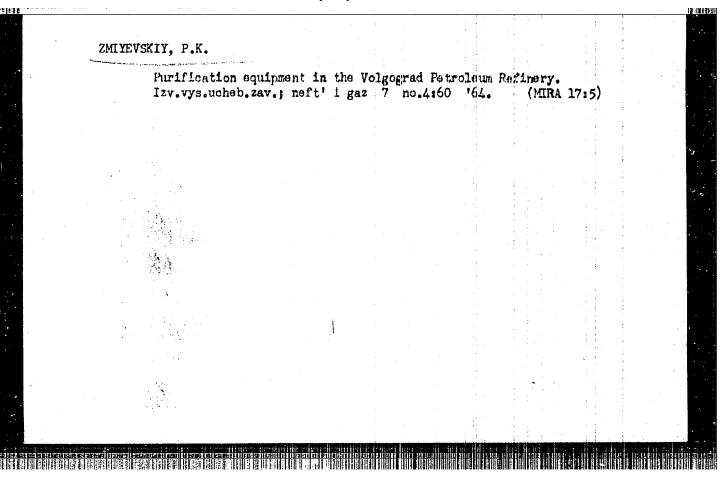
Obtaining extracts to be used as raw materials in the production of carbon black. Nefteper. i neftekhim. no.6:22-26:63
(HIRA 17:7)

1. Volgogradskiy nauchno-issledovatel'skiy institut neftyenoy i gazovoy promyshlennosti i Volgogradskiy netrepererabatyva-yushchiy zavod.

ZMIYEVSKIY, P.K.; DAL', V.I.; KUSAKINA, G.M.

Investigating the coking distillates from the refining residues of Volgograd oils. Izv. vys. ucheb. zev.; neft' i gaz 7 no.3: 59-62 '64. (MIRA 17:6)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut.



ZMIYEVSKIY, P.K.; DAL', V.I.

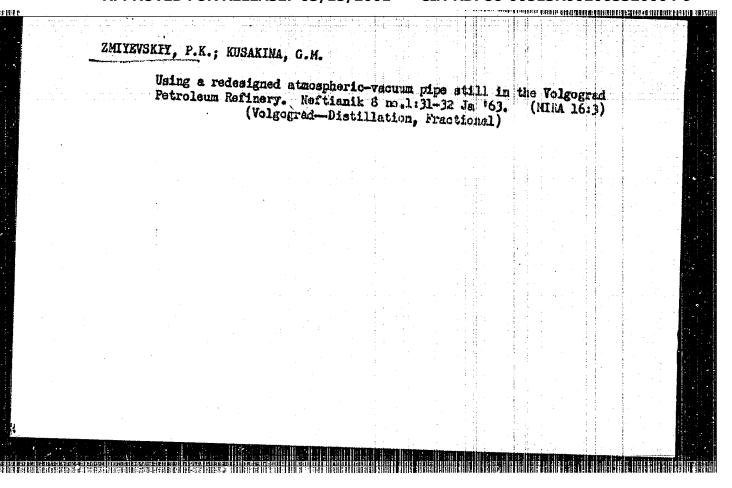
Coking gas oils as a crude for catalytic cracking. Nefteper. i neftekhim. no. 4:6-10 '64. (NIRA 17:5)

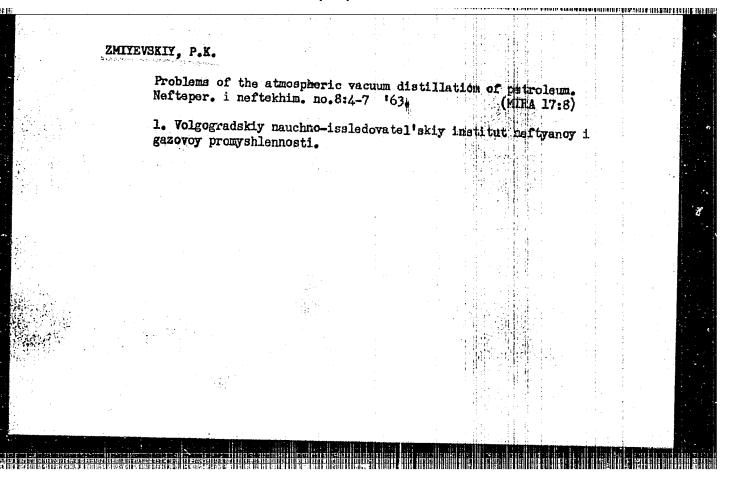
1. Volgogradskiy neftepererabatyvayushchiy zavod.

DAL', V.I.; ZMIYEVSKIY, P.K.; KOVALEV, I.P.

Heavy refining residues of Volgograd petroleums as raw materials for the retarded coking process. Izv. vys. ucheb. zav.; ne2t' i gaz 6 no.10:55-58 '63. (MIRA 17:3)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut im. Dzer-zhinskogo.





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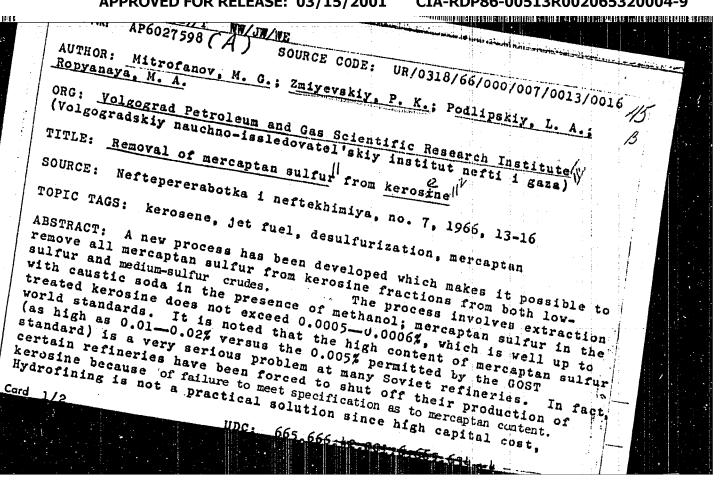
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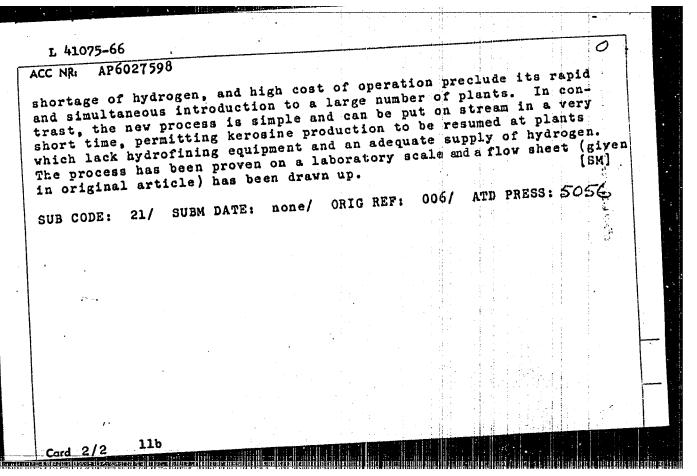
ZMIYEVSKIY, P.E.; MARTYNENKO, V.V.

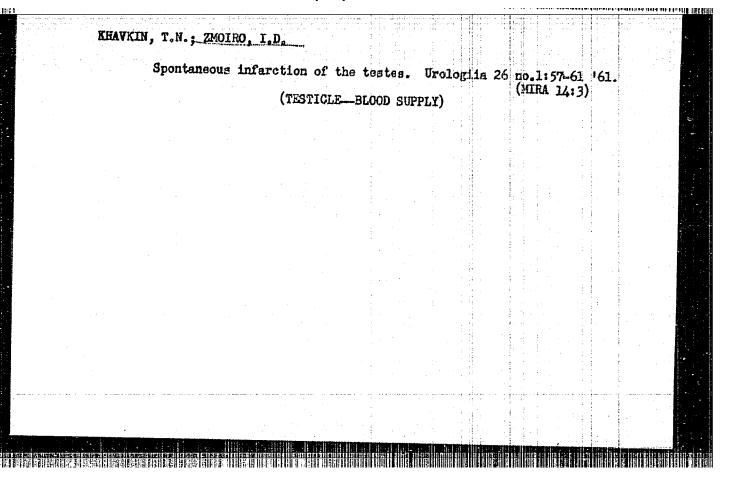
Operation of a unit for reterred toking. Nefteper. i neftekhim.
no.5:22-3 '64.

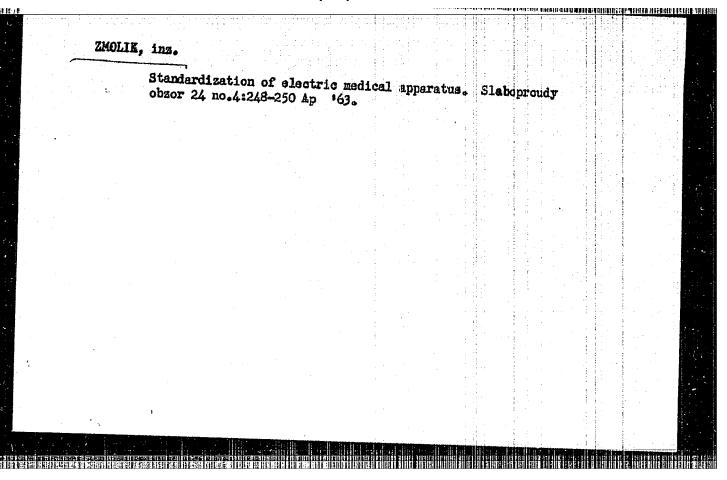
1. Volgogradskiy nefteperersbatyvayushchiy zavod i Volgogradskiy nauchno-issledovatel'skiy institut nefti i gaza.

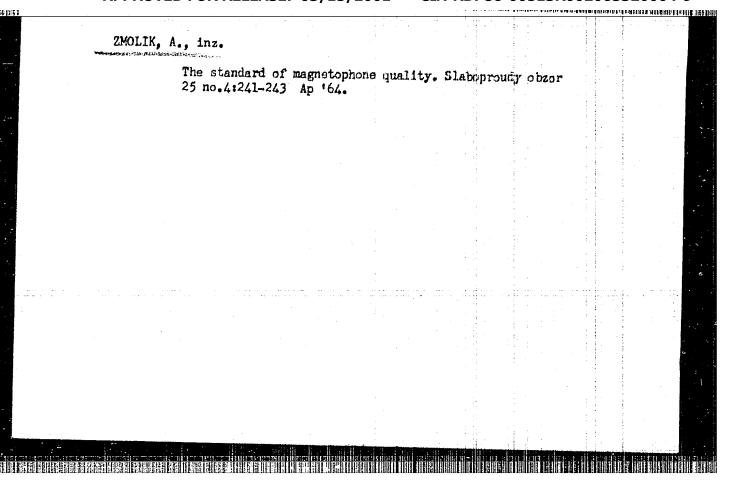
Volgogradskiy

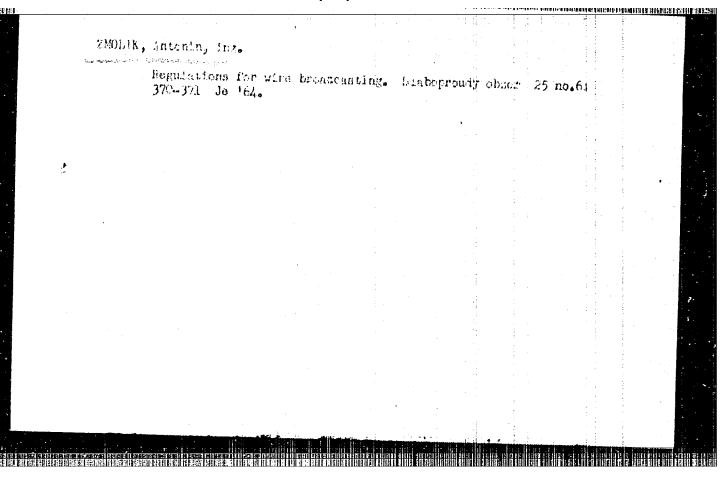


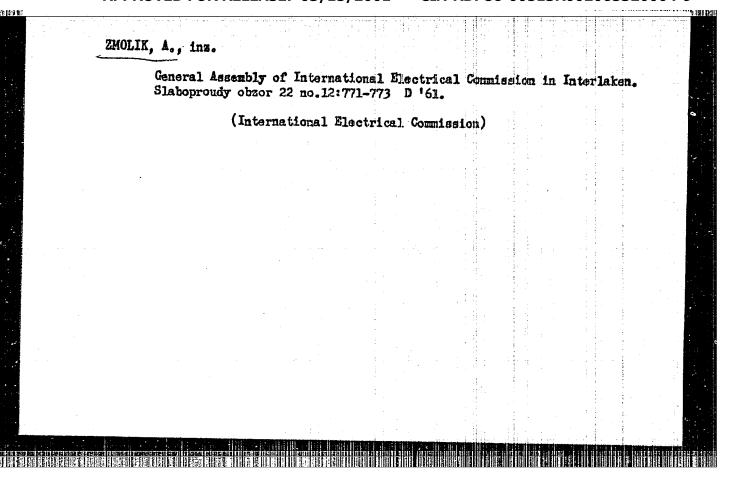


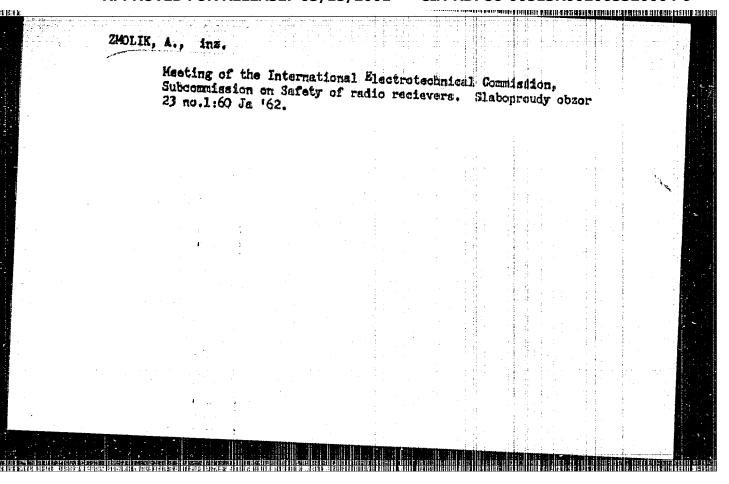


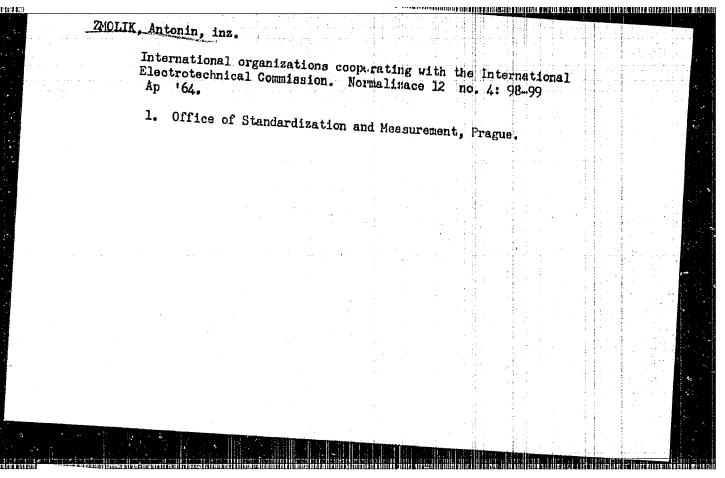


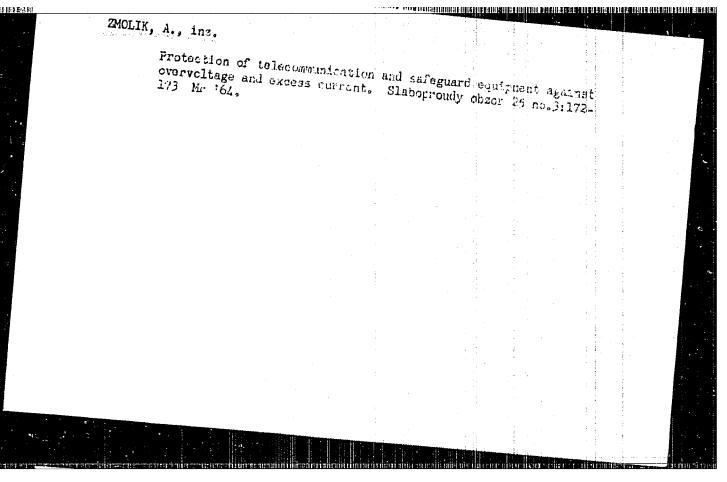


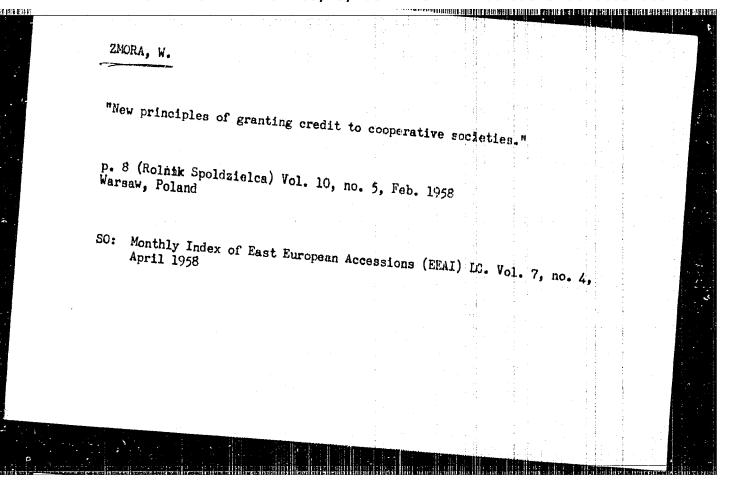


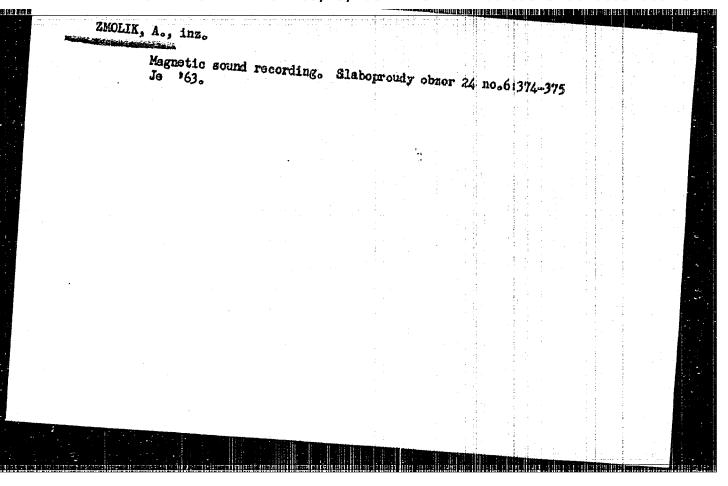


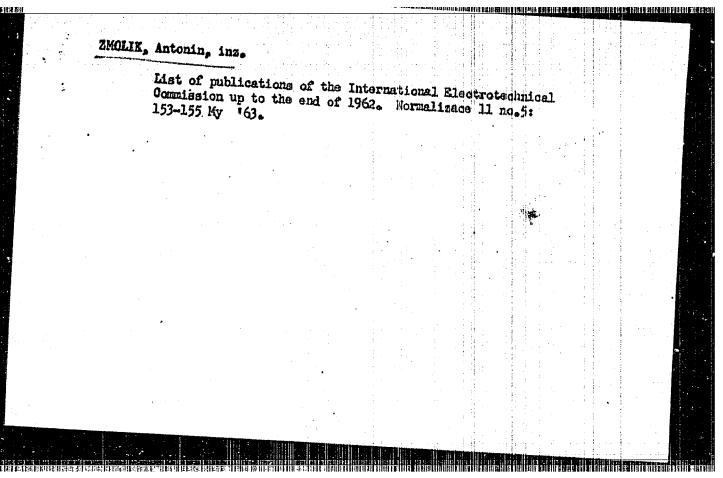


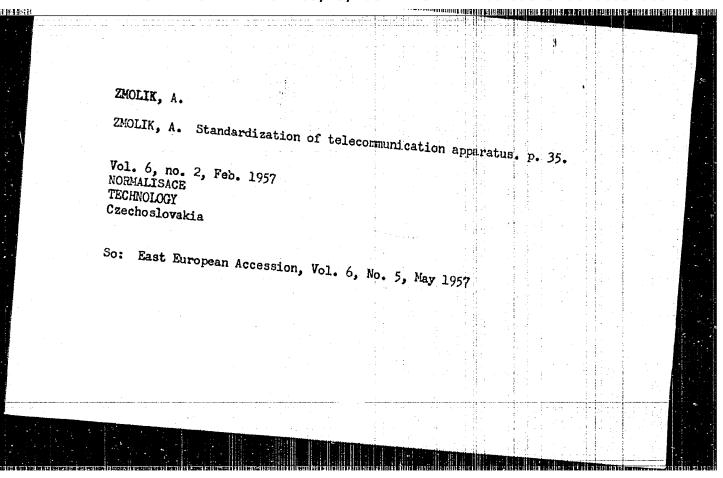


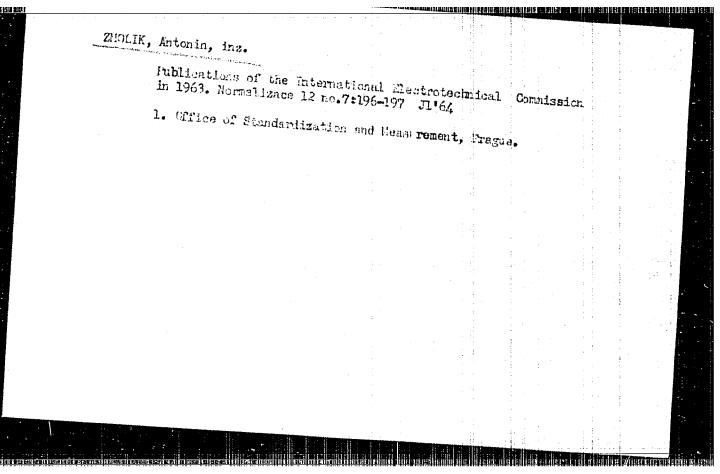


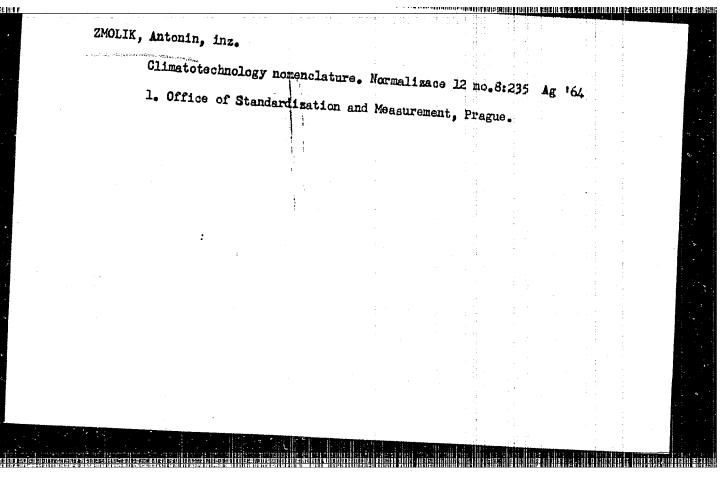


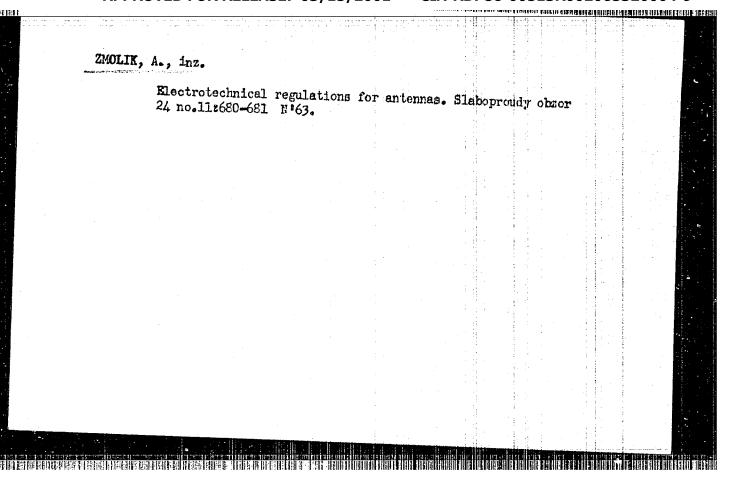












Z/039/60/021/01/025/040

AUTHORS: Jan Musil and A. Zmolik (Engineers)

TITLE: General IEC Meeting in Madrid

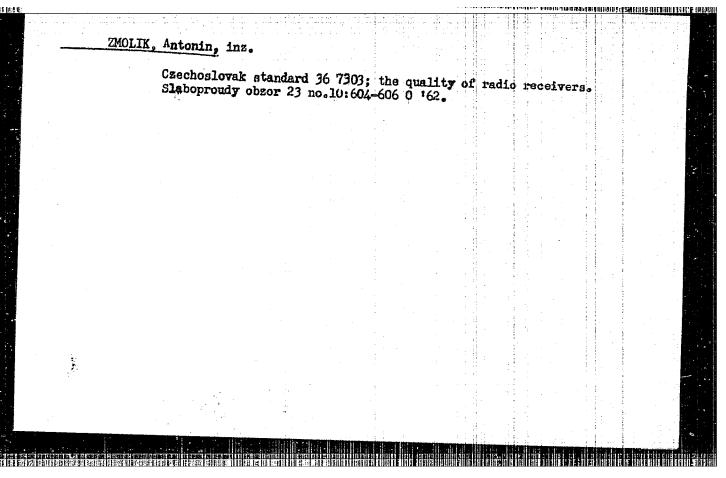
PERIODICAL: Slaboproudy Obzor, 1960, Vol 21, Nr 1, pp 97...59

ABSTRACT: Report on this meeting, which was held between June 30 commissions is reported on:

Sub-commission 18-3, Interference in ships' radio communications.

Sub-commission 39-1, Electron tubes.

Sub-commission 39-2, Semiconductor elements.

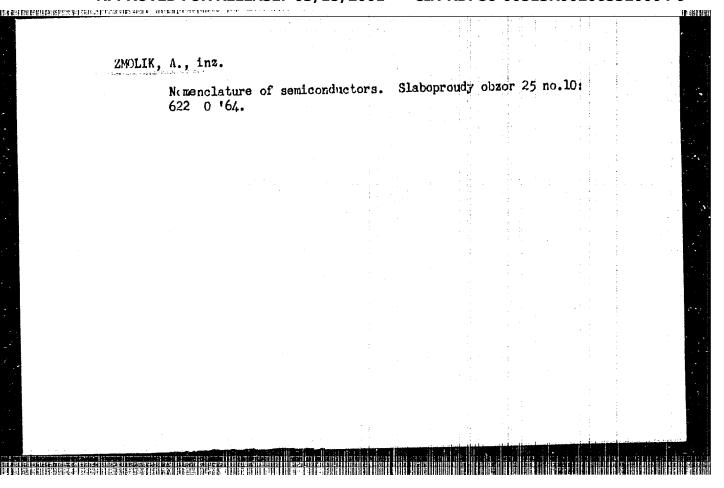


ZMOLIK, A.

"New international recommendation of the International Electrotechnical Commission." P. 335.

SLABOPROUDY OBZOR. (Ministerstvo presneho strojirenstvi, Ministerstvo spoju a Vedecka technicka spolecnost pro elektrotechniku pri CSAV). Praha, Czechoslovakia, Vol. 20, No. 5, May 1959.

Monthly list of East European Accessions (EFAI), LC, Vol. 8, No. 8, August 1959. Uncla.



ZMORAY, I.

MILITARY & NAVAL SCIENCES: GENERAL

Periodical NASA VEDA. Vol. 5, no. 10, Oct. 1958.

ZMORAY, I. A national scientific seminar on the fascioliasis of domestic animals. p. 459.

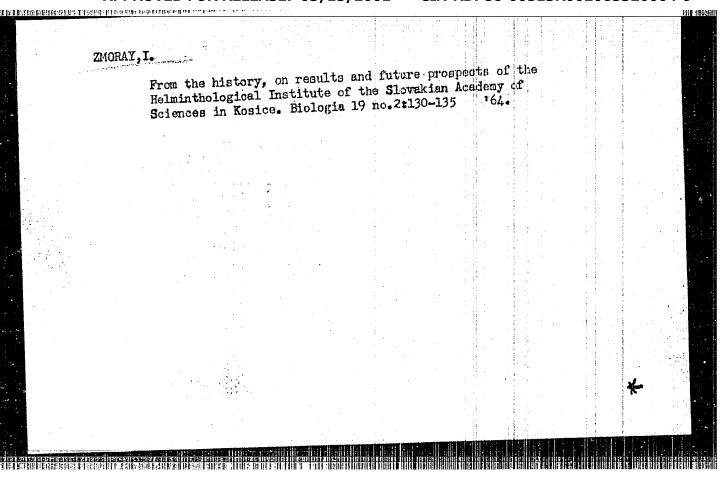
Monthly List of East European Accessions (EEAI) LC, Vol. 8, np. 3, March, 1959. Uncl.

ZMORAY, I.

"Application of Michurin's theses in Helminthology."

VESTNIK. Praha, Czechoslovakia, Vol. 5, No. 7/8, 1958.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 9, September 1959. Unclassified.



The Darwin theory of the "fight for life" in the light of Lysenko's doctrine.
p. 113.

30: Zast European Accessions List, Vol. 3, No. 9, Sapt. 1954, Lib. of Congress.

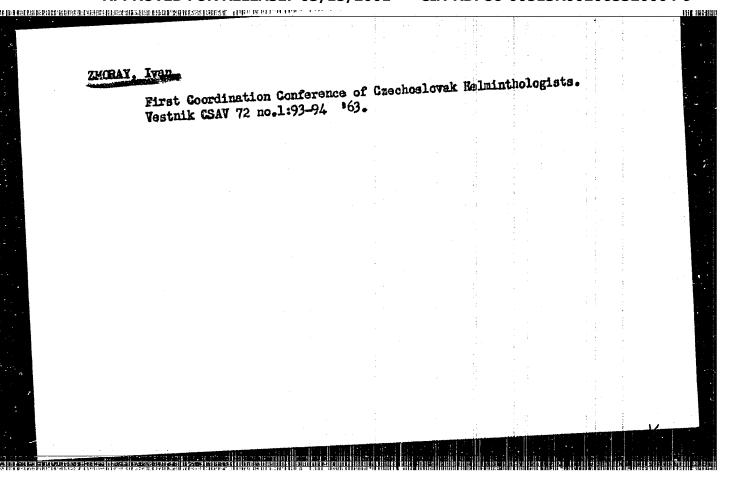
ZNORAY, I.

"The Darwin Theory of the "Fight for Life" in the Light of Lysenko's Inctrine." p. 113,

Bratislava, Vol. 6, 1951.

SO: East European Accessions List, Vol. 3, No. 9, September 1954, Lib. of Congress

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PAKASITULUUIX

CZECHOSLOVAKIA

ZMORAY. Ivan: Helminthological Institute of the Slovak Academy of Sciences, Kosice. Original version not given 7.

"On the Problems of the Ecological Understanding of Parasite Specificity."

Bratislava, <u>Biologia</u>, Vol 21, No 4, 1966, pp 241 - 245

Abstract /Author's English summary modified 7: The generally accepted definitions of parasite specificity are discussed. A basic concept of specificity is presented by the author and mathematical equations expressing this concept are presented. The only specific relationship is that between the host and the parasite. The number of specificities should be reduced so that ecological designation could be narrowed down more precisely. No references. Original article is in German. (Manuscript received 6 Dec 65).

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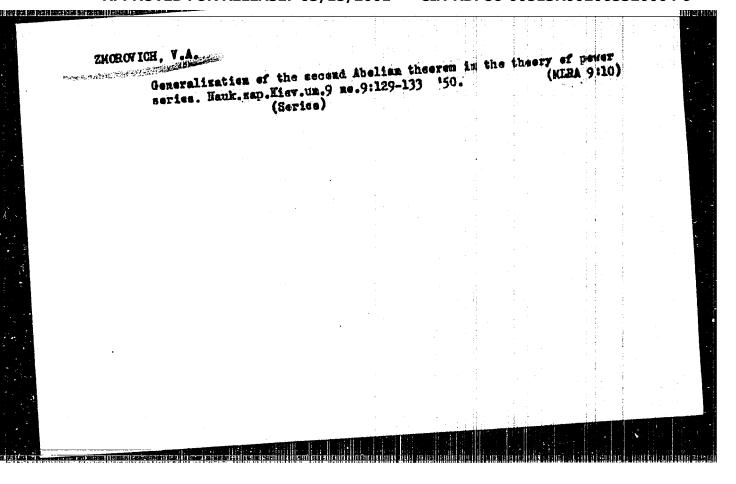
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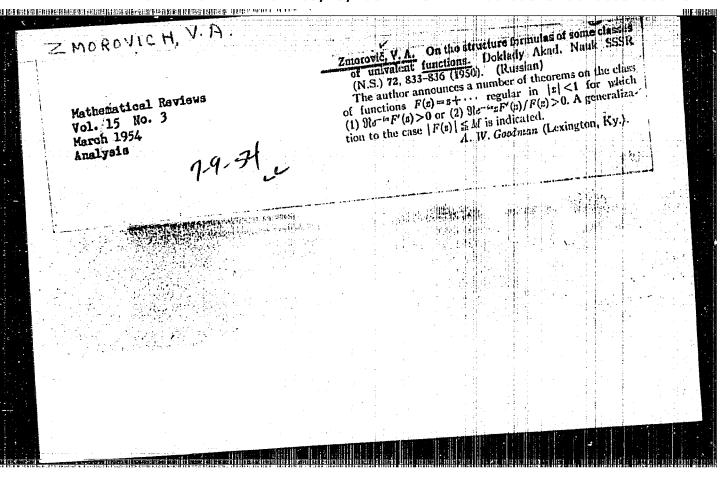
ZMORAY, Ivan: LESTAN, Pavol; Holminthological Institute, Slovak Academy of Sciences (Helmintologicky Ustav Slovenskej Akademie Vied), Kosice.

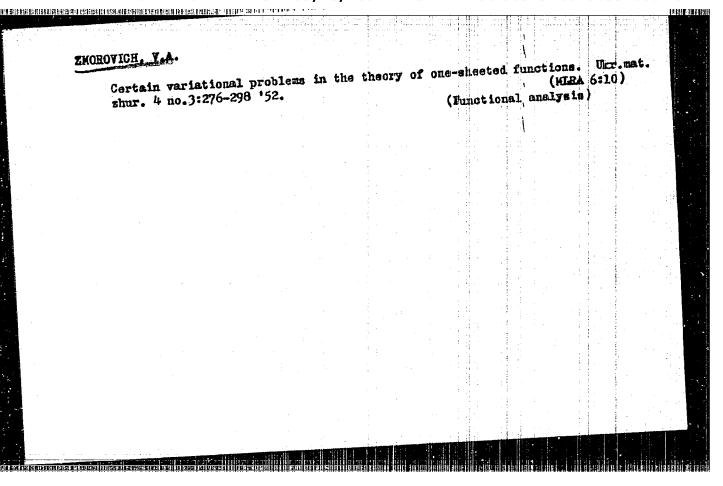
"Catalase Activity in Sexually Adult Females of Ascaris Suum."

Bratislava, Biologia, Vol 21, No 10, 1966, pp 749 - 754

Abstract: The catalase activity of the females of Ascaris suum varies to a great extent. The variation is probably due to the age of the helminth. When the material was homogeneous, as far as age is concerned, the activity was a function of body weight. 3 Tables, 2 Western, 1 Czech, 3 Russian references. (Manuscript received 27 Jun 66).





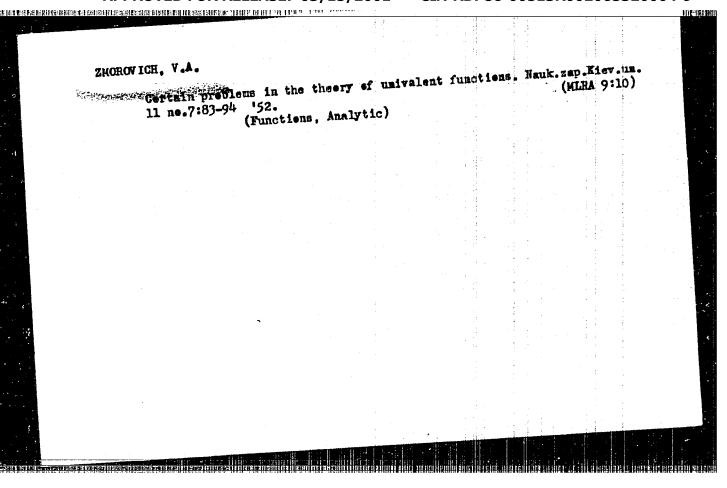


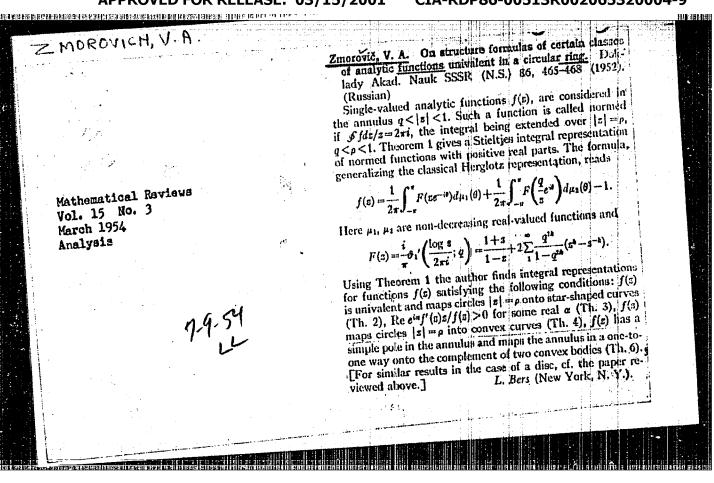
ZMOROVICH, V.A.

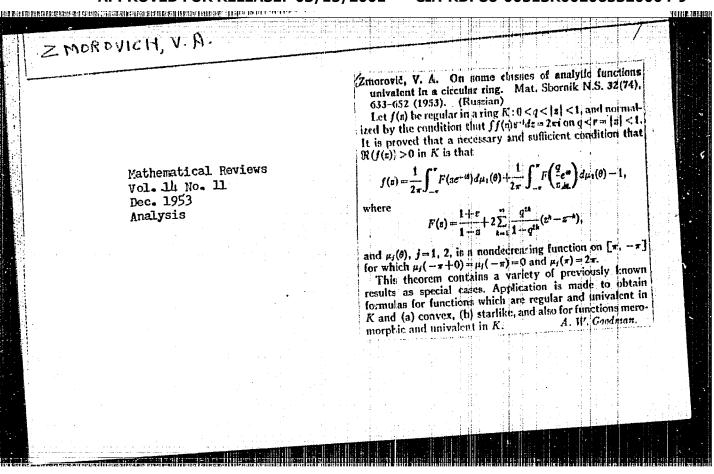
zmorovic, V. A. On a criterion of N. I. Lohačevskii for the convergence of positive numerical series and a generalization of this criterion. Uspehi Matem. Nauk (N.S.) 7, no. 1(47), 162-170 (1952). (Russian)

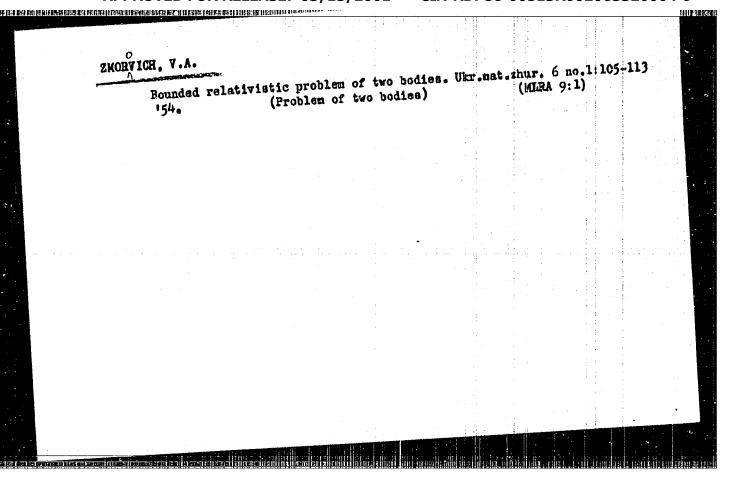
The author gives an elementary discussion and simple modifications of the following theorem published by Lomodifications of the following theorem for which the series of positive terms for which the series of positive terms for which $u_{n+1} < u_n$ and $u_n = 0$. Let k be a positive integer. Then $\sum u_n < u_{n+1} < u_n$ and $u_n = 0$. Let k be a positive integer. Then $\sum u_n < u_n$

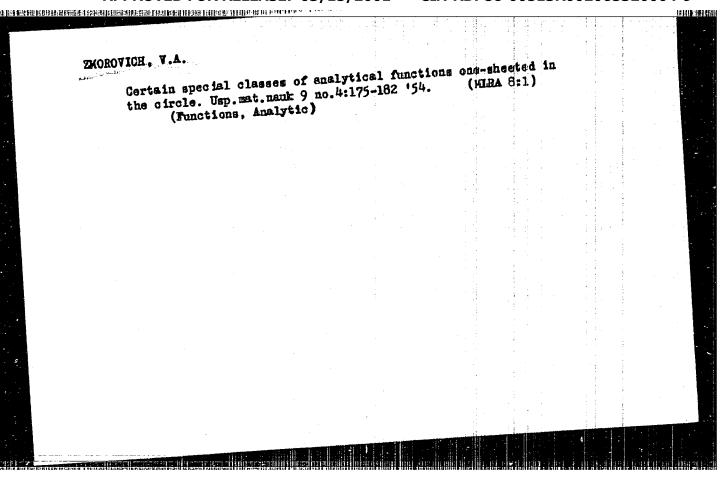
SO: MAYPENATION MANUEM (unclassified) vol XIV, No 3, pp233-240 Narch 1953











CARD 1/3

ZMOROVICH, V.A.

USSR/MATHEMATICS/Theory of functions

SUBJECT AUTHOR

On the limits of the roots of algebraic polynomials.

Uspechi mat. Nauk 11, 5, 179-183 (1956) TITLE

PERIODICAL reviewed 1/1957

Let be given the algebraic polynomial

Let be given the wilder
$$\frac{n}{1}$$
 $P(z) = \sum_{v=0}^{n} a_v z^v$ $(a_0 \neq 0, a_n \neq 0)$

with real or complex coefficients. Then the following theorems are valid: 1. For $n \ge 2$ be $R = \max \left\{ \left| \frac{a_k}{a_n} \right| \right| \right\}$

Then all zeros of (1) lie in the ring

(2)
$$\frac{x}{R_0} \leq |z| \leq \frac{R}{x}$$

where x is the single positive root of x n+1-2x+1 = 0 being different from 1. This root satisfies the inequation

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card 2/3

PG - 500

Uspechi mat. Nauk 11, 5, 179-183 (1956)

 $\frac{1}{2} + \frac{1}{2^{n+2}} < x < \frac{1}{2} + \frac{1}{2^{n+1}} .$

The limits of (2) are exact: The lower one reaches the polynomial $\sum_{k=0}^{\infty} (R_0 z)$ and the upper one reaches the polynomial $z^n = \sum_{k=1}^n R^k z^{n-k}$.

2. If $R \geqslant \max \left\{ \left| \frac{a_{n-k}}{a_n} \right| \frac{\frac{1}{k}}{k} \right\}_{k=1}^{k=n}$, then $n\left(\frac{R}{k}\right) \leqslant \frac{\ln\left[\left(n+1\right)\left|\frac{a_{n}}{a_{0}}\right|R^{n}\right]}{\ln k}$

where k >1 and n($\frac{R}{k}$) is the number of zeros of (1) in the circle $|z| \leq \frac{R}{k}$.

3. Let $\left|\frac{a_k}{a_0}\right| = \delta_k$ (k=1,2,...n). Outside of the circle $\left|z\right| \le \left(1+\delta_1+\ldots+\delta_n\right)^{\frac{1}{n-k}}$ (k=1,2,...n-1)

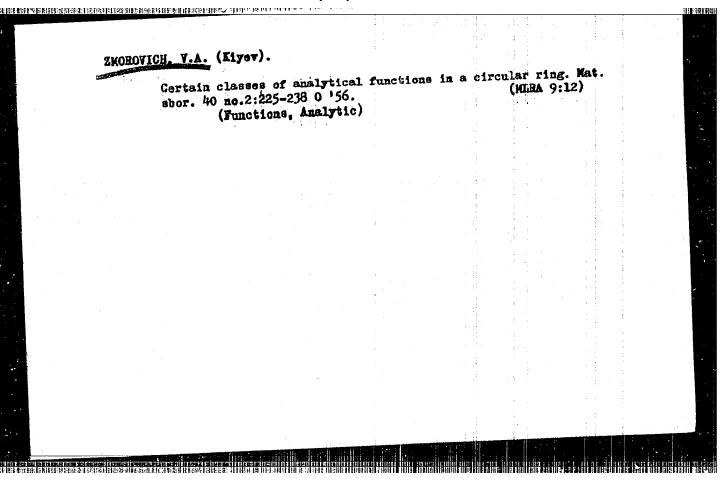
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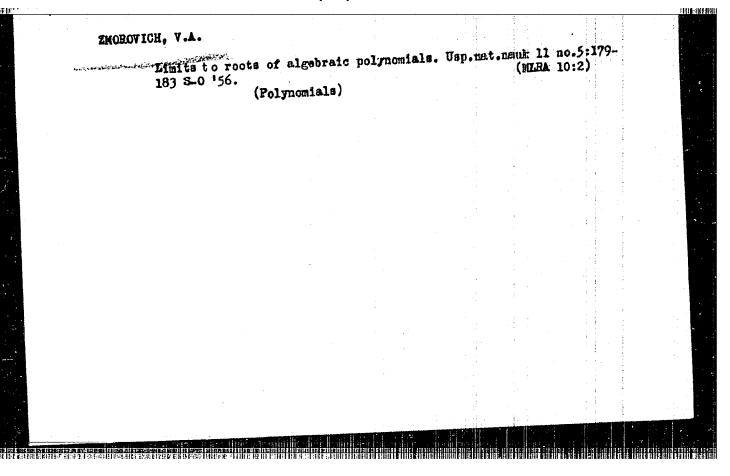
there lie at least k zeros of (1),

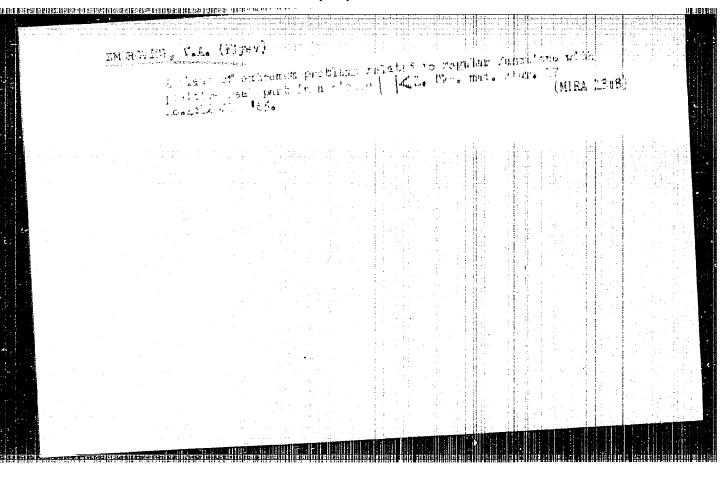
4. Let $Q(z) = 1 + b_1 z + b_2 z^2 + \dots + b_n z^n$ and $1 + |b_1| + \dots + |b_n| = A$. Let $S(A_{in})$ denote the class of polynomials Q(z) for fixed n and A. Let $r_k(A,n)$ be the exact upper bound of those numbers $r_k > 0$ for which in the circle $|z| \leqslant r_k$ there lie not more than n-k meros of each polynomial of the class S(A,n). For a polynomial of the class S(A,n) holds:

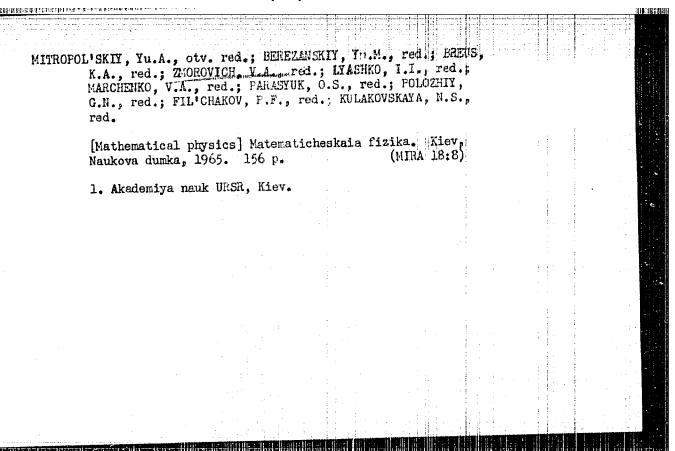
 $r_1(A,n) = (A-1)^{-n}$

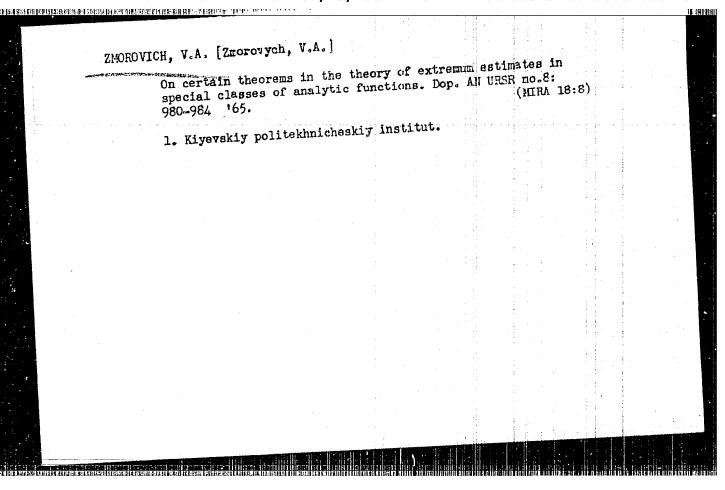
With a corresponding restriction, from these theorems one obtains the results of S.K.Singh (Proc.Nat.Inst.Sci.India 19. 5, 601-603 (1953)).



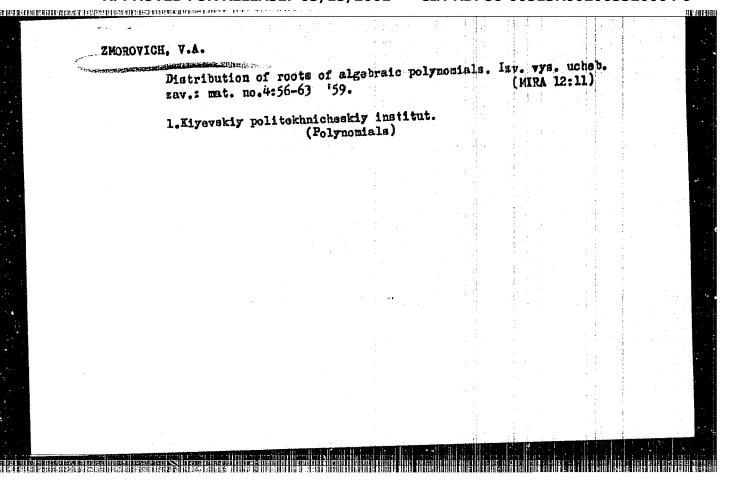








ZMOROVICH, V.A.							
	One of Mathieu's 123-124 '60.	inequalities.	Izv.vys.uch	leb.zav.;	mat. no	.1: 13:6)	
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	SOY/140-59-4-B/26
. 16(1) AUTHOR:	On the Theory of the Distribution of Zeros of Algebraic
TITLE:	On the Theory of the Polynomials Polynomials Izvestiya vysehikh uchebnykh zavedeniy. Matematika, 1959, Izvestiya vysehikh uchebnykh zavedeniy.
PERIODICAL:	Wr A. DV Jo
ABSTRACT:	Let $n > 2$, $a_n \neq 0$, $a_n \neq 0$, ay complex.
	Let $(1.1) P_n(z) = \sum_{y=0}^n a_y z^y$, $n \ge 2$, $a_0 \ne 0$, $a_n \ne 0$, a_y complex.
	Let denote: $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	Let denote: $d_y = \left \frac{a_y}{a_n} \right (y = 0, 1,, n-1), d_y = \left \frac{a_y}{a_n} \right (y = 1, 2,, n)$ theorems of Singh / Ref 1 / Dan Sun-shi / Ref 3 / and theorems of Singh / Ref 1 / Ref 5 / Theorem 11:
	10 theorems of Singh Lines more formulated and Company
	Rahman / Ref 2 Strong Ref 3,6 1/2 Where generalizes results of Parodi / Ref 3,6 1/2 Where In the domain z > r (1 + 6 + + 0 n)
Card 1/3	

9

On the Theory of the Distribution of Zeros of Algebraic Polynomials

307/140-59-4-8/26

 $\lambda = \frac{n-1}{8}$, s >1 and integer, (1.1) possesses at least

$$n - \left[\frac{n-1}{8} \right] = \left[\frac{g-1}{8} n + 1 \right]$$

zeros

Theorem 13: If (1.1) satisfies the condition

$$\alpha_{n-p} > 1 + \sum_{k=1}^{n-1} \alpha_k \quad (k \neq n-p, p+2,3,...,n)$$

then p zeros of (1.1) lie in the ring

.
$$|\langle |z| \langle \frac{1}{2} (6' + \sqrt{6^2 + 4\alpha}) ,$$

where
$$\alpha = \left| \frac{a_{n-p}}{a_n} \right|$$
 and $0 = \sum_{k=0}^{n-1} \alpha_k$ $(k \neq n-p)$

Card 2/3

On the Theory of the Distribution of Zeros of Sov/140-59-4-8/26 Theorem 14: If $a_{n-k}=0$ (k=1,2,...,p-1) and $a_{n-p}>1$ $\sum_{k=0}^{n-p-1} a_k$, then each of the p zeros of (1.1) in |z|>1 lie in one of the p domains: $|z(z^p + \frac{a_{n-p}}{a_n})| \leq \delta' = \sum_{k=0}^{n-p-1} a_k$ There are 6 references, 1 of which is Soviet, 1 Chinese, ASSOCIATION: Kiyevskiy politekhnicheskiy institut (Kiyev Polytechnic SUBMITTED: May 12, 1958

67085

16(1)-16.3000

SOV/44-59-1-310

Translation from : Referativnyy zhurnal, Matematika, 1959, Nr 1, p 58 (USSR)

AUTHOR: Zmorovich, V.A.

TITLE: On Generalized Analytic Functions

PERIODICAL: Izv.Kiyevsk.politekhn.in-ta,1956,19, 3 - 65

ABSTRACT: The author represents the foundations of an algorithmic theory of the functions $f(z) = u + iv \ (z = x + iy)$ which are defined by the elliptic system of equations

$$u_x = a(x,y)v_x + b(x,y)v_y$$
,

$$u_y = c(x,y)v_x + d(x,y)v_y$$

Differentiation and integration are constructed in the class of these functions (for more details see Referativnyy zhurmal.Matematika, 1957, 1367).

G.N. Polozhly

Card 1/1

16(1) 50V/42-14-4-13/27 Zmorovich, V.A. AUTHOR: On the Theory of Special Classes of Schlicht Functions. II TITLE: PERIODICAL: Uspekhi matematicheskikh nauk, 1959, Vol 14, Nr 4, pp 169-172 (USSR) The present paper is a direct continuation of [Ref 1]. The ABSTRACT: author introduces two classes of functions schlicht and regular in the unit circle (z|<1 containing as very special subclasses the classes treated by Tchakaloff [Ref 2] and Thale [Ref 3].

It is stated that all these classes belong to the "almost convex" functions of Ozaki [Ref 4]. Finally it is proved: Theorem: If f(z) is regular and convex in |z| < 1; λ , M, C are complex numbers, $M \neq 0$, $\left| \arg \frac{h}{h} \right| < \frac{\pi}{2}$, then $F(z) = \lambda f(z) + Mzf'(z) + C$ is "almost convex" in |z|<1. The author mentions L. Ye. Dunduchenko, and B. N. Rakhmanov. There are 6 references, 2 of which are Soviet, 1 American. ! French, 1 Roumanian, and 1 Japanese. Card 1/1

16(1)

AUTHOR: Zmorovich, V.A.

SOV/42-14-3-8/22

TITLE:

On the Theory of Special Classes of Schlicht Functions I

PERIODICAL:

Uspekhi matematicheskikh nauk, 1959, Vol. 14, Nr 3,

pp 137 - 144 (USSR)

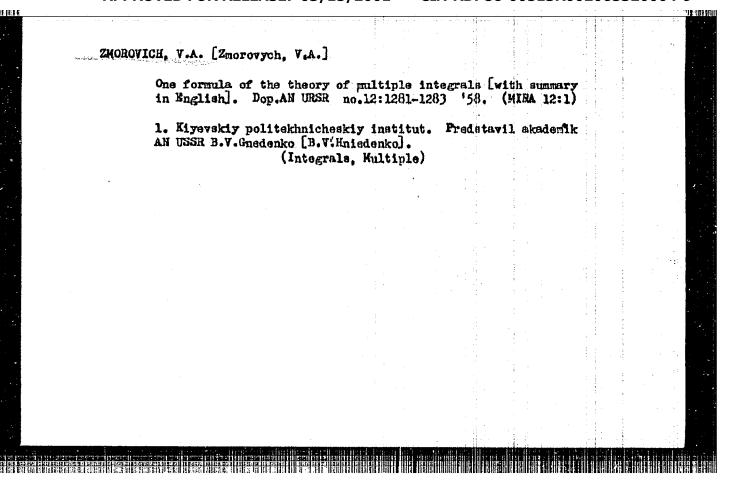
ABSTRACT:

The author considers certain special classes of schlicht functions, to which there belong in particular the functions convex in a given direction introduced by Robertson / Ref 1 / and some function classes of B.N. Rakhmanov / Ref 2 /. It is shown that all these classes are subclasses of the class K of the almost convex functions of Ozaki / Ref 3 /. The author proves a general theorem on schlicht functions in schlicht domains with an arbitrary connectivity. The theorem on almost convex functions of Ozaki and a theorem of Rogozhin / Ref 4 / are obtained as conclusions. Altogether there are three theorems and several conclusions. - There are 5 references, 3 of which are Soviet, 1 American, and 1 Japanese.

SUBLITTED:

November 19,1956

Card 1/1



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ZMOR	OVICH, V.A.	* 4*.*	*					
	On the theor no.1:5-9	y of specia 59.	l classes	of unive	alent funct	ions. Dop. (KIRA)	2:3)	
	1. Kiyevskiy B.V. Gnedenko	o [B.V. Hni	cheskiy in edenko]. ional ana		Predstavi.	. akadenik	an user	
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sov/140-58-2-10/20 AUTHOR: Zmorovich, V.A. On Some Marks of Convergence and Divergence for Series of TITLE: Positive Numbers (O nekotorykh priznakakh skhodinosti i paskhodimosti znakopolozhitel'nykh chislovykh ryadov) PERIODICAL: Izvestiya vysshikh uchebnykh navedeniy Ministerstva vysshego obrazovaniya SSSR, Matematika, 1958, Hr 2, pp 106-117 (USSR) Let $\{p_k\}$ be a sequence of positive numbers, $p_1 \geqslant 1$, $p_k < p_{k+1}$. ABSTRACT: Let the function f(x) be positive, continuous and monotonely decreasing on $[1,\infty]$, lim f(x) = 0. Theorem: In order that the series (2) $\sum (p_{k+1}-p_k)f(p_k)$ $\sum f(\mathbf{k})$ and (1) converge or diverge at the same time it is necessary and sufficient that (3)Theorem: Let f(x) be continuous and not negative for $x \ge 1$, Card 1/2

On Some Marks of Convergence and Divergence for Series SOV/140-58-2-10/20 of Positive Numbers

Var $\{f(x)\}_{t}^{\infty} \leq \varphi(t)$, $t \geq 1$, where $\varphi(t)$ is a not increasing, not negative function on $[1,\infty]$, where $\sum_{k=1}^{\infty} \varphi(k)$ converges. Let

the sequence $\{p_k\}$ be as above and let it satisfy (3). Then (1) and (2) converge or diverge at the same time.

Three further theorems with conclusions give improvements of older results of Bugayev [Ref 2] and the proof of the necessity of certain sufficient convergence conditions conjectured by the author [Ref 6].

There are 8 references, 5 of which are Soviet, 1 French, 1 Indian, and 1 German.

ASSOCIATION: Kiyevskiy ordena Lenina politekhnicheskiy institut (Kiyev Polytechnical Institute distinguished by the Lenin Order)

SUBMITTED: November 15, 1957

Card 2/2

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16(1)

SOV/21-59-1-2/26

AUTHOR:

Zmorovich, V.A.

TITLE:

On the Theory of Special Classes of Unifoliate Functions (K teorii spetsial'nykh klassov odnolistnykh funktsiy)

PERIODICAL:

Dopovidi Akademii nauk Ukrains'koi RSR, Nr 1, 1959,

pp 5-9 (USSR)

ABSTRACT:

This article establishes a few structural formulae of some classes of unifoliate holomorphic functions in a circle |z| <1 of analytic functions, upon which, some of the formulas of L.Tchakaloff [1], Thale [2] and others are based. It also establishes a structural formula for classes La, Loof B.N. Rakhmanov. Four

theorems are examined and proved true. In the process of calculation, the regular function in circle |z| < 1, which makes possible identification of the convex function γ (z) in that circle, and real number γ , is designated K. Convex functions in circle $|z| \le 1$ are called functions of class S. Every stable function on segment

Card 1/2

SOV/21-59-1-2/26

On the Theory of Special Classes of Unifoliate Functions.

ASSOCIATION: Kiyevskiy politekhnicheskiy institut (Kiyev Polytech-

nicalInstitute).

PRESENTED: July 14, 1958, by B.V. Gnedenko, Member of the AS

UkrSSR.

Card 2/2

16(1)

507/21-59-4-2/27

AUTHOR:

Zmorovich, V.A.

TITLE:

On the Boundaries of Curvature Fluctuation of a Plane Curve Image in Unifoliate Conformal Mapping

PERIODICAL:

Dopovidi Akademii nauk Ukrains'koi RSR, 1959, Nr 4,

pp 351-354 (USSR)

ABSTRACT:

Furthering the works by L. Thakalff / Ref l / and L.Ye. Dunduchenko / Ref 2 /, the author examines general problems of distortion of curvature in a plane curve in unifoliate conformal mapping. The principal aim of this article is to attract attention of mathematicians to investigation of a new series of possible extreme problems of the theory of unifoliate functions. General estimations (13) and (15) are estab-

Card 1/2

lished for fluctuations of the curvature on a multitude of possible directions of the tangent of the

SOV/21-59-4-2/27

On the Boundaries of Curvature Fluctuations of a Flane Curve Image in Unifoliate Conformal Mapping

> initial curve. Two examples are considered. Designations are standard mathematical. There are 2 Soviet references.

ASSOCIATION: Kiyevskiy politekhnicheskiy institut (Kiyev Polytechnical Institute)

PRESENTED: By B.V. Gnedenko, Member of the AS UkrSSR

SUBMITTED: December 7, 1958

Card 2/2

Plant control of the	MARINE.
· AUTHOR:	Zmorovich, V.A. 21-58-5-5/28
TITLE:	On Generalization of Schwarz's Integral Formula on n-Connected Circular Domains (Ob obobshchenii integral'noy formuly Shvartsa na n-svyaznyje krugovyje oblasti)
PERIODICAL:	Dopovidi Akademii nauk Ukraina'koi RSR, 1958, Nr 5, pp 489-492 (USSR)
ABSTRACT:	The author finds another form other than Meschkowski's formula for the generalization of Schwarz's formula, which is more convenient for various applications. It looks as follows: $f(z) = \frac{1}{2\pi} \sum_{j=1}^{2\pi} \int_{0}^{2\pi} u_{j}(\theta) f_{j}(z_{j} f_{j}) d\theta - \alpha + i \beta$ where α and β are real constants and $\alpha = \beta_{K}$ $(k = 1, 2,, n)$. This formula is a generalization of the Schwarz integral formula on n-connected circular domains, which reduces to the former at $n = 1$. If the boundary of an n-connected domain consists of ordinary closed analytical curves, the formula of the author can be extended to this case by means of a certain auxiliary conformal mapping. Making use of his for-
Card 1/2	mula the author establishes the structural formulas for three

21-58-5-5/28

On Generalization of Schwarz's Integral Formula on n-Connected Circular Domains

important classes of single-valued regular functions in n-connected circular domains, which was not possible to accomplish with the aid of Meschkowski's formula / Ref 1 /.
There are 5 references, 2 of which are Soviet, 1 German and

2 Finnish.

ASSOCIATION: Kiyevskiy politekhnicheskiy institut (Kiyev Polytechnic In-

stitute)

PRESENTED: . By Member of the AS UkrSSR, B.V. Gnedenko

SUBMITTED: October 10, 1957

NOTE: Russian title and Russian names of individuals and institu-

tions appearing in this article have been used in the trans-

literation.

1. Integral functions -- Theory

Card 2/2

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ZMOROVICH, V.A. [Zmorovych, V.A.] Generalization of Schwartz' integral formula on u-connected circular domains [with summary in English]. Mop. AN URSR no.5:489-492 . 58. (MIRA 11:6) 1. Kiyevskiy politekhnicheskiy institut. Fredstavleno akademikom B.V. Gnedenko [B.V. Hniedenko]. (Functions)

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002065320004-9

21-58-7-3/27 Zmorovich, V.A. AUTHOR: On a Generalization of Poisson's Integral Formula for n-Connected Circular Domains (Ob obobshchenii integral noy TITLE: formuly Puassona na n-avyaznyje krugovyje oblasti) Dopovidi Akademii nauk Ukrainstkoi RSR, 1958, Nr 7, PERIODICAL: pp 698-701 (USSR) The author considers a unifoliate n-connected domain Kn whose boundary consists of n-circumferences of \vec{lj} -circles ABSTRACT: described by the equations: $(j = 1, 2, ..., n; 0 \le 0 \le 2\pi).$ $S_i = a_j + R_j e^{i\theta}$ He looks for a formula which can define every regular in K and continuous in Kn harmonic function in the points of the circumferences of Tj in a form more convenient than those of Meschkowski (Ref. 1) and Sekki (Ref. 2). ly found representation looks as follows: Card 1/3

On a Generalization of Poisson's Integral Formula for n-Connected Circular

Domains

$$u(z) = \frac{1}{2\pi} \sum_{K=1}^{n} \int_{a}^{2\pi} u_{K}(\theta) \operatorname{Re} F_{K}(z; \xi_{K}) d\theta - \sum_{K=1}^{n} \frac{\lambda_{K}}{\ln q_{K}} \ell_{m} |G_{K}(z)|,$$

where $F_k(z; \zeta_h)$ (k = 1, 2, ..., n) are unifoliate in K_n functions introduced by the author (Ref. 3), and

$$\lambda = \frac{1}{2\pi} \sum_{j=1}^{n} \int_{0}^{2\pi} u_{j}(\theta) \ell_{j,j,k}(\theta) d\theta$$

This is a generalization of the Poisson integral formula for n-connected unifoliate circular domains. Employing this formula, the author proves some general theorems about the integral representations of various classes of analytical and harmonic functions in n-connected direular domains. In particular, a generalized Poisson - Jensen formula is established for n-connected carcular domains. There are 3 references, 1 of which is Soviet and 2 Finnish.

Card 2/3

On a Generalization of Poisson's Integral Formula for -- Samested Circular

ASSOCIATION: Kiyevekiy politekhnicheskiy institut(Kiyev Polytechnical Institute)

PRESENTED: By Member of the AS Ukrssr, B.V. Gnedenkc

SUBMITTED: February 18, 1958

NOTE: Russian title and Russian names of individuals and institutions appearing in this article have been used in the transliteration.

1. Poisson integrals—Applications 2. Harmonic functions—Applications 3. Analytic functions—Applications

Card 3/3

SOV-21-58-8-1/27 Zmorovich, V.A. AUTHOR: On the Theory of Convergence of Positive Numerical Series (K teorii skhodimosti znakopolozhitel nykh chislovykh ryadov) TITLE: Dopovidi Akademii nauk Ukrains'koi RSR, 1958, Nr 8, pp 805-809 PERIODICAL: (USSR) The author proves four theorems to be used in testing for convergence or divergence of positive numerical series. He ABSTRACT: shows that in certain cases they can be reduced to the theorems formulated by N.I. Lobachevskiy, V.P. Termakov, A. Cauchy, O. Schloemilch and N.V. Bugayev. However, a theorem of the latter (Ref. 10) was found to be incorrect, and some conclusions based by Yermakov (Ref. 4) on this theorem are therefore unfounded. In the author's opinion, the theorems proved are of interest from the viewpoint of the general theory of convergence and divergence of numerical series, due to a certain completeness of the results contained in them. There are 13 references, 10 of which are Soviet, 1 French, 1 German and 1 English. ASSOCIATION: Kiyevskiy politekhnicheskiy institut (Kiyev Polytechnical Institute)

Card 1/2

On the Theory of Convergence of Positive Numerical Series SOV-21-58-6-1/27

PRESENTED: By Member of the AS UkrSSR, B.V. Gnederko

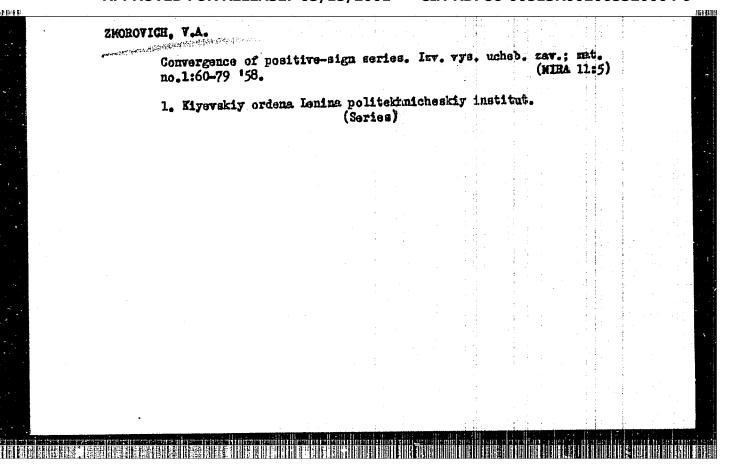
SUBMITTED: March 6, 1958

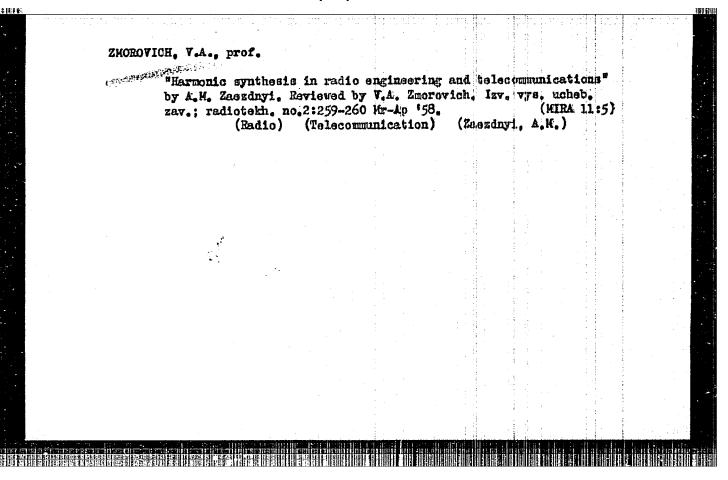
NOTE: Russian title and Russian names of individuals and institutions

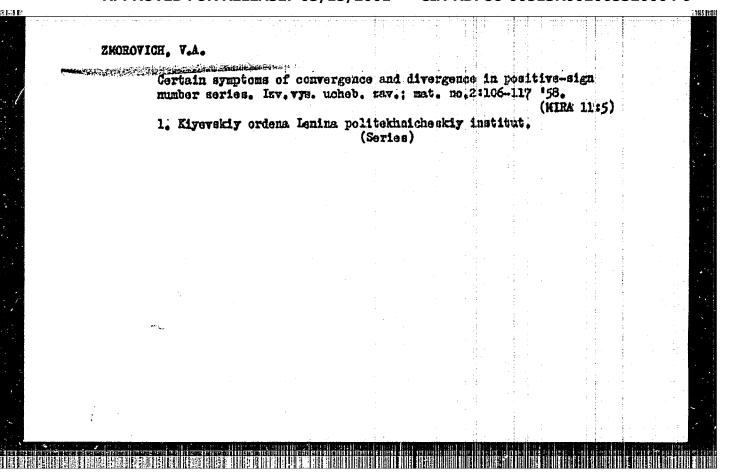
appearing in this article have been used in the transliteration.

1. Mathematics-Theory

Card 2/2







TETEL RAIM, S.I.; ZKOROVICH, V.A. [Zmorovych, V.A.]

Possibility of improving the clearness of images produced by optical instruments [vith summary in English]. Dop. AN URSE' no.4:323-327 '57.

1. Chlen-korrespondent AN URSR (Tetel baum). 2. Institut elektrotekhniki AN URSR i Kitvs'kly politekhnichniy institut.

(Optical instruments)

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002065320004-9

ZMOROVICH, V.M.

21-4-1/24

AUTHORS:

Tetel'baum, S.I., Gorresponding Member of the Ukrainian

Academy of Sciences and Zmorovych, V.A.

TITLE:

On the Possibility of Improving the Clearness of Images Produced by Optical Instruments (Pro mozhlyvist' polipshennya chitkosti

zobrazhen', utvoryuvanykh optychnymy instrumentamy)

PERIODICAL:

Dopovidi Akademii Nauk Ukrains'koi RSR, 1957, #4, pp 323-327

(USSR)

ABSTRACT:

The clearness of images is essentially restricted by the diffraction properties of an optical system. It is possible to improve this clearness, if characteristics of the optical devices used are assumed to be known.

The article describes a method of such an improvement proposed by Tetel'baum and gives a proof of the uniqueness of the solu-

tion deduced by Zmorovich.

The method consists in the solution of an integral equation in

n-dimensional space which looks as follows:

 $\tilde{F}(K,\nu,p) = \iiint_{(R)} F(\ell,\sigma,q) \varphi(K,\nu,p,\ell,\sigma,q) d\ell, d\sigma, dq.$

Card 1/3 "

TITLE:

On the Possibility of Improving the Clearness of Images Produced by Optical Instruments (Pro mozhlyvist' polipshennya chit-kosti zobrazhen', utvoryuvanykh optychnymy instrumentamy)

where F is the known function of coordinates k, frequency and other parameters p. This function corresponds to the less clear image of an object and it is found from experimental data (for instance, by the photometry or densitometry of photographies).

The function F which represent an investigated object more clearly is being sought for. The kernel of equation 9 characterizes diffractional and other properties of the apparatus used, and of the observational conditions.

This method can be applied also to ultrasonic devices, radio-technical tools with directed antennas, spectroanalyzers, etc.

It is expected that the method proposed will make it possible to improve the clearness of images by enveral times.

On order to find the function F, it is expedient to use an algorithm to be applied in modern high-speed electronic computers or special integrators.

No references are given.

Card 2/3

TITLE:

On the Possibility of Improving the Clearness of Images Produced by Optical Instruments (Pro mozhlyvist' polipshennya chitkosti zobrazhen', utvoryuvanykh optychnymy instrumentany)

INSTITUTION: Institute of Electrotechnics of the Ukraimian Academy of Sciences, Kiyev Polytechnic Institute

PRESENTED BY:

SUBMITTED: 4 December 1956

AVAILABLE: At the Library of Congress

Card 3/3

AUTHOR: SOV A40 58-1-7/21 TITLE: On Some Questions of the Convergence Theory of Series With Positive Terms (O nekotorykh voprosakh teorii skhodimosti znakopolozhitelinykh ryadov) Izvestiya vysshikh uchebnykh zavedeniy Ministerstva vysshego PERIODICAL: obrazovaniya SSSR, Matematika, 1958, Nr. 1, pp 60 - 79 (USSR) ABSTRACT: The author explicitly deals with the older Russian papers of Yermakov [Ref 6-9], Bugayev [Ref 1,2] and Bukreyev [Ref 3-5] concerning the convergence of series. The principal results consist in the proof of the necessity of the convergence condition of Yermakov and in the proof that a convergence or !terion of Bugayev is nothing but a special case of a result of Schlömilch Ref 15]. Let the function f(x) be unique, positive and continuous on $[1, +\infty)$; the integral f(x)dx and the series $\sum f(k)$ assumed to converge or diverge simultaneously. Let $\theta(x) \in E$ denote that there exists an a > 0, so that $\theta(x)$ Card 1/3

On Some Questions of the Convergence Theory of Series 50V/140-58-1-7/21 With Positive Terms

is continuously differentiable on $[a,+\infty]$, $0^{\circ}(x)>0$, $\theta(x)>x$. Let a property A be called almost immediately satisfied on $(a,+\infty)$, if it is satisfied on $[b,+\infty]$, $b \ge a$. With these denotations the above mentioned completion of the theorem of Yermakov [Ref 6] reads as follows a Theorems For the convergence (Divergence) of the series

it is necessary and sufficient that there exists a $O(x) \in E$ and an \emptyset , $O \le \omega \le 1$, (an A > 1), so that on $\begin{bmatrix} 1 \\ y \end{bmatrix} + \infty$

$$f(\theta(x))\theta'(x) \leq \alpha f(x)$$

as satisfied almost immediately.

Altogether the paper contains 7 definitions, 7 lemmats and 10 theorems which in most cases are slight modifications of well-known results. The last two sections have a somewhat polemic character and deal with the investigation of Ostrovski [Ref 14] published some years ago.

There are 14 references, 11 of which are Soviet, 2 German, and

Card 2/3